

APPENDIX D

Summary Tables V.A.1 through V.A.8.
See text for details.

Table V.A.1. Summary of the percentage of systems with detections (>MRL) and exceedances (>MCL*) of selected contaminants, comparing ground-water supplied, community-water systems and non-transient, non-community water systems in Michigan.

Contaminant	CWSs		NTNCWSs	
	Percent > MRL	Percent > MCL*	Percent > MRL	Percent > MCL*
SOCs				
2,4-D	0.0%	0.0%	0.0%	0.0%
Atrazine	0.3%	0.1%	0.4%	0.0%
Benzo[a]pyrene	0.0%	0.0%	0.0%	0.0%
Carbofuran (Furadan)	0.0%	0.0%	0.0%	0.0%
Ethylene Dibromide (EDB)	0.0%	0.0%		
Glyphosate (Roundup)	0.0%	0.0%	0.0%	0.0%
Simazine	0.3%	0.0%	0.1%	0.0%
VOCs				
Benzene	0.9%	0.2%	0.9%	0.3%
Styrene	8.1%	0.0%	1.5%	0.0%
Tetrachloroethylene	1.8%	0.2%	0.6%	0.1%
Vinyl Chloride	0.2%	0.0%	0.0%	0.0%
Xylenes (Total)	1.8%	0.1%	1.6%	0.0%

* % > MCL indicates the proportion of systems with any analytical results exceeding the concentration value of the MCL; it does not necessarily indicate an MCL violation. An MCL violation occurs when the MCL is exceeded by the average results from four quarterly samples or confirmation samples as required by the primacy State.

Table V.A.2. Summary of the percentage of systems with detections (>MRL) of selected contaminants, comparing ground-water and surface-water supplied systems, by size of system (population served categories), for a high-occurrence state.

Contaminant	Population Served				
	< 500	500-3,300	3,301-10,000	10,001-50,000	> 50,000
Surface Water (% > MRL)					
IOCs					
Barium	100.0%	100.0%	100.0%	100.0%	100.0%
Cadmium	20.0%	0.0%	0.0%	0.0%	0.0%
Mercury	0.0%	3.2%	0.0%	0.0%	0.0%
SOCs					
2,4-D	44.4%	65.8%	53.8%	29.6%	44.4%
Atrazine	100.0%	100.0%	96.2%	96.3%	55.6%
Benzo[a]pyrene	0.0%	0.0%	0.0%	0.0%	11.1%
Carbofuran (Furadan)	0.0%	5.3%	0.0%	0.0%	0.0%
Ethylene Dibromide (EDB)	0.0%	2.6%	20.0%	10.7%	9.1%
Glyphosate (Roundup)	0.0%	0.0%	0.0%	0.0%	0.0%
VOCs					
Benzene	0.0%	5.1%	33.3%	17.9%	27.3%
Styrene	0.0%	2.6%	26.7%	17.9%	27.3%
Tetrachloroethylene	0.0%	2.6%	30.0%	25.0%	18.2%
Vinyl Chloride	0.0%	2.6%	23.3%	17.9%	27.3%
Xylenes (Total)	22.2%	17.9%	43.3%	32.1%	27.3%
Ground Water (% > MRL)					
IOCs					
Barium	98.2%	98.6%	95.2%	90.9%	100.0%
Cadmium	0.0%	4.2%	0.0%	0.0%	0.0%
Mercury	0.0%	1.9%	0.0%	0.0%	0.0%
SOCs					
2,4-D	1.3%	5.3%	6.0%	6.4%	33.3%
Atrazine	2.5%	11.3%	12.0%	21.3%	33.3%
Benzo[a]pyrene	0.6%	0.0%	0.0%	0.0%	33.3%
Carbofuran (Furadan)	0.2%	0.0%	0.0%	0.0%	0.0%
Ethylene Dibromide (EDB)	0.6%	0.9%	3.8%	5.8%	33.3%
Glyphosate (Roundup)	0.0%	0.0%	0.0%	0.0%	0.0%
VOCs					
Benzene	1.6%	4.1%	13.3%	15.4%	66.7%
Styrene	3.3%	4.4%	10.5%	3.8%	66.7%
Tetrachloroethylene	2.2%	5.1%	16.2%	25.0%	100.0%
Vinyl Chloride	1.6%	2.1%	11.4%	7.7%	66.7%
Xylenes (Total)	11.1%	18.4%	19.4%	32.7%	66.7%

Table V.A.3. Summary of the percentage of systems with exceedances (>MCL*) of selected contaminants, comparing ground-water and surface-water supplied systems, by size of system (population served categories), for a high-occurrence state.

Contaminant	Population Served				
	< 500	500-3,300	3,301-10,000	10,001-50,000	> 50,000
Surface Water (% > MCL*)					
IOCs					
Barium	0.0%	0.0%	0.0%	0.0%	25.0%
Cadmium	0.0%	0.0%	0.0%	0.0%	0.0%
Mercury	0.0%	0.0%	0.0%	0.0%	0.0%
SOCs					
2,4-D	0.0%	0.0%	0.0%	0.0%	0.0%
Atrazine	77.8%	71.1%	57.7%	18.5%	22.2%
Benzo[a]pyrene	0.0%	0.0%	0.0%	0.0%	0.0%
Carbofuran (Furadan)	0.0%	0.0%	0.0%	0.0%	0.0%
Ethylene Dibromide (EDB)	0.0%	0.0%	20.0%	10.7%	9.1%
Glyphosate (Roundup)	0.0%	0.0%	0.0%	0.0%	0.0%
VOCs					
Benzene	0.0%	2.6%	0.0%	0.0%	0.0%
Styrene	0.0%	0.0%	0.0%	0.0%	0.0%
Tetrachloroethylene	0.0%	0.0%	0.0%	0.0%	0.0%
Vinyl Chloride	0.0%	0.0%	0.0%	0.0%	0.0%
Xylenes (Total)	0.0%	0.0%	0.0%	0.0%	0.0%
Ground Water (% > MCL*)					
IOCs					
Barium	0.0%	2.8%	4.8%	18.2%	0.0%
Cadmium	0.0%	1.4%	0.0%	0.0%	0.0%
Mercury	0.0%	1.9%	0.0%	0.0%	0.0%
SOCs					
2,4-D	0.0%	0.0%	0.0%	0.0%	0.0%
Atrazine	0.0%	1.1%	0.0%	0.0%	33.3%
Benzo[a]pyrene	0.0%	0.0%	0.0%	0.0%	33.3%
Carbofuran (Furadan)	0.0%	0.0%	0.0%	0.0%	0.0%
Ethylene Dibromide (EDB)	0.0%	0.9%	2.9%	1.9%	33.3%
Glyphosate (Roundup)	0.0%	0.0%	0.0%	0.0%	0.0%
VOCs					
Benzene	0.1%	0.5%	1.0%	0.0%	0.0%
Styrene	0.0%	0.0%	0.0%	0.0%	0.0%
Tetrachloroethylene	0.4%	0.7%	0.0%	3.8%	33.3%
Vinyl Chloride	0.0%	0.2%	1.9%	0.0%	0.0%
Xylenes (Total)	0.0%	0.0%	0.0%	0.0%	0.0%

* % > MCL indicates the proportion of systems with any analytical results exceeding the concentration value of the MCL; it does not necessarily indicate an MCL violation. An MCL violation occurs when the MCL is exceeded by the average results from four quarterly samples or confirmation samples as required by the primacy State.

Table V.A.4. Summary of the percentage of systems with detections (>MRL) of selected contaminants, comparing ground-water and surface-water supplied systems, by size of system (population served categories), for a low-occurrence state.

Contaminant	Population Served				
	< 500	500-3,300	3,301-10,000	10,001-50,000	> 50,000
Surface Water (% > MRL)					
IOCs					
Barium	29.6%	33.3%	66.7%	36.4%	50.0%
Cadmium	5.6%	1.6%	16.7%	4.5%	0.0%
Mercury	11.3%	17.5%	16.7%	9.1%	25.0%
SOCs					
2,4-D	0.0%	3.3%	0.0%	0.0%	0.0%
Atrazine	0.0%	0.0%	0.0%	0.0%	0.0%
Benzo[a]pyrene	0.0%	0.0%	0.0%	0.0%	0.0%
Carbofuran (Furadan)	0.0%	0.0%	0.0%	4.8%	25.0%
Ethylene Dibromide (EDB)	0.0%	0.0%	0.0%	4.8%	0.0%
Glyphosate (Roundup)	0.0%	0.0%	0.0%	0.0%	0.0%
VOCs					
Benzene	0.0%	1.6%	0.0%	0.0%	0.0%
Styrene	0.0%	0.0%	5.6%	0.0%	0.0%
Tetrachloroethylene	4.5%	3.5%	0.0%	0.0%	0.0%
Vinyl Chloride	0.0%	1.6%	5.6%	0.0%	0.0%
Xylenes (Total)	2.3%	3.5%	0.0%	0.0%	0.0%
Ground Water (% > MRL)					
IOCs					
Barium	29.3%	45.8%	36.4%	64.7%	33.3%
Cadmium	5.4%	6.7%	4.5%	29.4%	0.0%
Mercury	6.7%	9.2%	9.1%	23.5%	33.3%
SOCs					
2,4-D	0.3%	0.0%	0.0%	0.0%	0.0%
Atrazine	0.0%	0.0%	0.0%	0.0%	0.0%
Benzo[a]pyrene	0.0%	0.0%	0.0%	0.0%	0.0%
Carbofuran (Furadan)	0.0%	0.0%	0.0%	0.0%	0.0%
Ethylene Dibromide (EDB)	0.9%	0.0%	0.0%	6.3%	0.0%
Glyphosate (Roundup)	0.0%	0.0%	0.0%	0.0%	0.0%
VOCs					
Benzene	0.2%	0.8%	4.5%	5.6%	0.0%
Styrene	0.0%	0.0%	0.0%	0.0%	0.0%
Tetrachloroethylene	6.5%	10.3%	0.0%	0.0%	33.3%
Vinyl Chloride	0.0%	0.0%	0.0%	0.0%	0.0%
Xylenes (Total)	1.5%	3.9%	0.0%	0.0%	0.0%

Table V.A.5. Summary of the percentage of systems with exceedances (>MCL*) of selected contaminants, comparing ground-water and surface-water supplied systems, by size of system (population served categories), for a low-occurrence state.

Contaminant	Population Served				
	< 500	500-3,300	3,301-10,000	10,001-50,000	> 50,000
Surface Water (% > MCL*)					
IOCs					
Barium	0.0%	1.6%	0.0%	0.0%	0.0%
Cadmium	0.0%	0.0%	0.0%	0.0%	0.0%
Mercury	0.0%	3.2%	0.0%	0.0%	0.0%
SOCs					
2,4-D	0.0%	0.0%	0.0%	0.0%	0.0%
Atrazine	0.0%	0.0%	0.0%	0.0%	0.0%
Benzo[a]pyrene	0.0%	0.0%	0.0%	0.0%	0.0%
Carbofuran (Furadan)	0.0%	0.0%	0.0%	0.0%	0.0%
Ethylene Dibromide (EDB)	0.0%	0.0%	0.0%	0.0%	0.0%
Glyphosate (Roundup)	0.0%	0.0%	0.0%	0.0%	0.0%
VOCs					
Benzene	0.0%	0.0%	0.0%	0.0%	0.0%
Styrene	0.0%	0.0%	0.0%	0.0%	0.0%
Tetrachloroethylene	2.3%	0.0%	0.0%	0.0%	0.0%
Vinyl Chloride	0.0%	0.0%	0.0%	0.0%	0.0%
Xylenes (Total)	0.0%	0.0%	0.0%	0.0%	0.0%
Ground Water (% > MCL*)					
IOCs					
Barium	0.1%	0.0%	0.0%	0.0%	0.0%
Cadmium	0.3%	1.7%	0.0%	0.0%	0.0%
Mercury	0.1%	0.0%	0.0%	0.0%	0.0%
SOCs					
2,4-D	0.0%	0.0%	0.0%	0.0%	0.0%
Atrazine	0.0%	0.0%	0.0%	0.0%	0.0%
Benzo[a]pyrene	0.0%	0.0%	0.0%	0.0%	0.0%
Carbofuran (Furadan)	0.0%	0.0%	0.0%	0.0%	0.0%
Ethylene Dibromide (EDB)	0.3%	0.0%	0.0%	0.0%	0.0%
Glyphosate (Roundup)	0.0%	0.0%	0.0%	0.0%	0.0%
VOCs					
Benzene	0.1%	0.0%	0.0%	0.0%	0.0%
Styrene	0.0%	0.0%	0.0%	0.0%	0.0%
Tetrachloroethylene	1.8%	0.0%	0.0%	0.0%	0.0%
Vinyl Chloride	0.0%	0.0%	0.0%	0.0%	0.0%
Xylenes (Total)	0.0%	0.0%	0.0%	0.0%	0.0%

* % > MCL indicates the proportion of systems with any analytical results exceeding the concentration value of the MCL; it does not necessarily indicate an MCL violation. An MCL violation occurs when the MCL is exceeded by the average results from four quarterly samples or confirmation samples as required by the primacy State.

Table V.A.6. Summary of the percentage of systems with detections (>MRL) of selected contaminants, comparing ground-water and surface-water supplied systems, by size of system (population served categories), from the national URCIS database.

Contaminant	Population Served				
	< 500	500-3,300	3,301-10,000	10,001-50,000	> 50,000
Surface Water (% > MRL)					
SOCs					
Dibromochloropropane (DBCP)	1.5%	1.7%	1.1%	3.3%	10.7%
Ethylene Dibromide (EDB)	3.9%	0.3%	1.3%	3.4%	10.1%
VOCs					
Methylene Chloride	11.1%	10.3%	14.5%	14.6%	17.1%
Tetrachloroethylene	1.1%	2.0%	1.3%	5.5%	11.8%
Toluene	7.7%	6.2%	7.3%	8.2%	13.1%
Trichloroethylene	0.5%	4.1%	7.2%	12.6%	22.1%
Vinyl Chloride	1.4%	0.6%	1.2%	2.1%	3.1%
Xylenes (Total)	15.8%	7.0%	9.8%	11.8%	17.2%
Ground Water (% > MRL)					
SOCs					
Dibromochloropropane (DBCP)	1.5%	2.5%	4.8%	12.2%	21.9%
Ethylene Dibromide (EDB)	0.3%	1.1%	3.4%	6.8%	13.3%
VOCs					
Methylene Chloride	2.7%	3.4%	8.0%	14.0%	24.5%
Tetrachloroethylene	2.2%	3.8%	9.6%	23.8%	42.8%
Toluene	2.9%	3.6%	8.2%	10.3%	17.3%
Trichloroethylene	2.1%	4.0%	10.4%	23.3%	39.4%
Vinyl Chloride	0.2%	0.5%	0.8%	2.9%	5.5%
Xylenes (Total)	1.8%	5.0%	7.9%	6.9%	10.2%

Table V.A.7. Summary of the percentage of systems with exceedances (>MCL*) of selected contaminants, comparing ground-water and surface-water supplied systems, by size of system (population served categories), from the national URCIS database.

Contaminant	Population Served				
	< 500	500-3,300	3,301-10,000	10,001-50,000	> 50,000
Surface Water (% > MCL*)					
SOCs					
Dibromochloropropane (DBCP)	2.5%	0.0%	0.7%	0.3%	3.4%
Ethylene Dibromide (EDB)	0.5%	0.9%	0.7%	1.6%	5.8%
VOCs					
Methylene Chloride	4.3%	2.9%	4.1%	3.9%	4.8%
Tetrachloroethylene	0.0%	0.4%	0.8%	1.2%	3.7%
Toluene	0.0%	0.0%	0.0%	0.0%	0.0%
Trichloroethylene	0.0%	0.3%	0.4%	2.0%	8.7%
Vinyl Chloride	0.0%	0.3%	0.8%	1.3%	2.1%
Xylenes (Total)	0.0%	0.0%	0.0%	0.0%	0.0%
Ground Water (% > MCL*)					
SOCs					
Dibromochloropropane (DBCP)	0.9%	1.2%	2.6%	6.2%	8.8%
Ethylene Dibromide (EDB)	0.2%	0.5%	2.1%	5.6%	6.3%
VOCs					
Methylene Chloride	0.4%	0.7%	1.7%	2.8%	5.4%
Tetrachloroethylene	0.4%	1.0%	2.9%	9.2%	23.3%
Toluene	0.0%	0.0%	0.0%	0.0%	0.0%
Trichloroethylene	0.4%	1.0%	3.5%	8.4%	22.4%
Vinyl Chloride	0.1%	0.1%	0.1%	1.4%	3.7%
Xylenes (Total)	0.0%	0.0%	0.0%	0.0%	0.0%

* % > MCL indicates the proportion of systems with any analytical results exceeding the concentration value of the MCL; it does not necessarily indicate an MCL violation. An MCL violation occurs when the MCL is exceeded by the average results from four quarterly samples or confirmation samples as required by the primacy State.

Table V.A.8. Summary of the percentage of systems with detections (>MRL) of selected unregulated contaminants, comparing ground-water and surface-water supplied systems, by size of system (population served categories), from the national URCIS database.

Contaminant	Population Served				
	< 500	500-3,300	3,301-10,000	10,001-50,000	> 50,000
Surface Water (% > MRL)					
VOCs					
(m-) 1,3-Dichlorobenzene	1.7%	0.2%	0.3%	0.8%	2.1%
1,1,1,2-Tetrachloroethane	0.4%	0.2%	1.3%	0.8%	1.3%
1,2,3-Trichloropropane	0.4%	0.2%	0.3%	0.3%	0.7%
Bromomethane	2.0%	0.2%	0.5%	2.1%	3.7%
Chloromethane	1.7%	2.6%	2.5%	2.4%	5.0%
o-Chlorotoluene	0.7%	0.4%	0.5%	1.1%	0.0%
p-Chlorotoluene	0.8%	0.0%	0.3%	0.8%	0.0%
Ground Water (% > MRL)					
VOCs					
(m-) 1,3-Dichlorobenzene	0.2%	0.1%	0.3%	0.7%	2.2%
1,1,1,2-Tetrachloroethane	0.0%	0.1%	0.2%	1.5%	4.0%
1,2,3-Trichloropropane	0.2%	0.1%	0.7%	1.9%	4.4%
Bromomethane	0.7%	0.6%	0.7%	1.8%	3.3%
Chloromethane	1.3%	1.6%	3.2%	3.3%	4.9%
o-Chlorotoluene	0.1%	0.1%	0.5%	0.4%	4.9%
p-Chlorotoluene	0.1%	0.1%	0.5%	0.9%	3.0%